                    # NUMBERS & ODDITIES #
     ////////////////////////////// \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
     - Editor: Ary Boender   ******   e-mail: ary@luna.nl -
     - Nickname on IRC channels #wun #monitor #numbers: Ary-B   -
     -   -
     - Download the complete N&O newsletter from the N&O web site -
     - at: http://home.luna.nl/~ary/   -
     -   -
     - Online database: Chris Smolinski <csmolinkski@erols.com>   -
     -                  http://www.spynumbers.com/numbersDB/   -
     \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\ ///////////////////////////////

                  -::: N&O #40 August 2001 :::-

Hello and welcome to a new edition of N&O. It is a hot summer here in the Netherlands. Not always favorable for the conditions. Propagation is often lousy and the statics are very annoying. But.... the weather is fine :-)

I received quite a lot of info, especially from Japan. Thanks for that!

Mr Yamamoto, secretary of the 500 club, informs me that their URL has changed. Our good friend and regular contributor Takashi Yamaguchi wrote a number of numbers articles in Japanese a while ago. English translations were published in N&O earlier this year. The 500 club has now -beside the original Japanese text- also English translations online. Takashi says that the club also has a page about Japanese professional radio's that could be of interest to dxers. Thanks for the note gents. Here is the new URL:

          http://isweb3.infoseek.co.jp/diary/five/english/

                        -o-o-o-o-o-o-o-o-o-o-

Two regular reported oddities have now an ENIGMA code. An introduction to XBS and XJT can be found under 'Other Modes'.

   XJT - the Jet
   XBS - the Buzzsaw
   V24 - South Korean stations

                        -o-o-o-o-o-o-o-o-o-o-

* VOICE STATIONS *

::: V24 - SOUTH KOREAN STATION

Takashi reports that the presumed South Korean female numbers stations

are still active on 5715 or 6215 kHz at H+00 or H+30 during East Asian midnight. Occasionally they transmit in parallel.

<<<<<>>>>>

::: E04 - CHERRY RIPE

Cherry Ripe experienced some problems on 27 June. A powerful pulse-type jammer interfered with CR for a few seconds at 1000 UTC on 20474 kHz. CR was completely inaudible. She resurfaced at 1023 UTC with the usual transmission until 1045 UTC. Did someone forget to switch 20474kHz on? Parallel 23461 kHz carried a normal transmission.

<<<<<>>>>>

::: RUSSIAN AIR DEFENSE

One of our correspondents in Japan reports lots of activity of the Russian Air Defense Networks.

Frequencies used are: 4800.5(LSB), 5190(both USB & LSB), 5293(LSB), 5680(USB), 5696(LSB), 5899(USB), 6195(LSB), 6268(LSB), 6593(LSB), 6864(both LSB & USB), 7211(USB).

<<<<<>>>>>

Albert checks in with an unid Russian station on 8728 kHz at 1105 UTC. He heard a clear ID as "...privyet, Naxodka 10" into a QSO.

<<<<<>>>>>

::: S21

A note from CR learns that S21 is still on the air, but its signal is very weak signal at present. This should normally improve later in the year. S21 was heard on 14 August at 1742 UTC on 5373 kHz.

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* MORSE STATIONS *

::: MX - RUSSIAN MILITARY CHANNEL MARKERS / BEACONS

Takashi reported a number of MX stations.
Vladivostok was heard on 3593,2 and 10307,2 kHz

''The irregular letters transmissions such as FFUFRSURUFAFUSUFFIIUAF have been heard a lot on 3594, 5154, 8495, 10528 and 13528 kHz since

the beginning of July'', he says. ''I was unable to hear usual F and M on these frequencies.''

K, very slow keying CW with a distinctive hum, has been occasionally heard on 5154, 10528 and 13528 kHz.

<<<<<>>>>>

::: M10

A monitor from Northern Africa writes that M10 is coming solid on 6945 kHz every night. He was able to intercept it on 10123 with different addressees and messages one night.

<<<<<>>>>>

::: M18

The first log since May comes from Thomas. He heard M18 on 4503 kHz at 2307 UTC with its typical time stamp marker. Time is UTC+4.

<<<<<>>>>>

::: M21 - RUSSIAN AIR DEFENSE

Russian Air Defense stations appeared on 4091.5, 4096, 4560, 5872.9, 6330 and 8104 kHz with the standard markers "BT991303??8?????" and coded messages. The time was UTC+4.

See also Voice Stations for the voice counterpart of M21.

<<<<<>>>>>

::: M25 - KKN REVISTED

Costas read the KKN story last month and sent me the following note:

> ''KWS78 (or at least its transmitter site) was located at the Athens suburb of Varibobi, near Dekelia (Tatoi) airport LGTT. Site coordinates: 38d 06.9'N 23d 48.3'E.
>
> The site had a number of lattice towers supporting wire log periodic antennas.
>
> After the Americans abandoned the site, it was transferred to the Greek army, although I think it is not manned. The antennas are still standing, but I don't know if there are any transmitters left back.

During my early days in ute dxing I had tried to send reception reports and PFC to 3-4 of these stations (I think KKN50 and KRH50 were among them). All reports were returned in the original (opened) envelopes without any comments.''

Thanks for the note, Costas. I know that KKN44 QSLed, but did anyone ever get a QSL from the other stations? Please let me know, ok?

<<<<<>>>>>

::: M29

M29's skeds were already reduced to Monday and Tuesday at 0600 and 0800 UTC. But during the 3rd week of August, CR said he heard only the two on Tuesday morning at 0600 UTC on 6760 and 5430. Will M29 follow its sister G04 into oblivion?

<<<<<>>>>>

::: M40, M82

Although the North Korean AM numbers went QRT last year, the North Korean CW numbers stations M40 and M82 are still occasionally logged.

<<<<<>>>>>

::: UNID; M51?

John checks in with an unid.
''I have been listening/copying the following CW station for over 3 hours. Station is sending 5LGs, 100 groups per message. Sending one message after the other with no ID. Sounds automated, no mistakes, no repeats, no breaks between messages.''

Frequency: 5404 kHz, 15 August, 2237 UTC

That sounds like M51, John. Did you notice a string like this between the messages? ''BT NR34 A 26 08:13:22 2001''

<<<<<>>>>>

::: UNIDS

1) From Thomas Roth comes the following unid. He heard on 7410 kHz at 2035 UTC, an unid CW station underneath both All India Radio and Radio Ukraine Int., sending 3LG and 2LGs occasionally ending with

K and interrupted by intervals of unequal length, presumably listening for replies as they often begin next transmission with R R.

2) Our friend from Northern Africa also heard an unid station on 27 July at 0017 UTC on 7995 kHz. The station transmitted slow hand morse with extreme long pauses between the 5FGs. The operator made an error once and repeated the last group.

<<<<<>>>>>

::: VARIOUS MILITARY STATIONS

1) RUSSIAN MILITARY STATIONS
Another batch of logs from Japan. This time a run down of Russian military stations.

3439.5	NBYZ de 6PXJ channel marker
4569.5	NBYZ de 6PXJ channel marker
4624	4JVQ de F9PX channel marker
4872	LA5S de NH8T channel marker
5406	LA5S de NH8T channel marker
5411	LA4S de NH8T channel marker
5855.5	9QOD de NV9Z channel marker

2) SLOVAK MILITARY
The Slovak military station in Zilina was reported by various people at 4396 kHz during the European evenings. The message was "HXVH HXVH HCVH = NVKL NVKL NVKL AR" in slow morse.

3) UNID 2362
The unid station on 2362 kHz is still active with various callsigns.

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* OTHER MODES *

::: XPH - POLYTONE STATION

XPH still uses the same frequency sets as last year. The expected sets for September are:

UTC	freq.	UTC	freq.
0600	13364	2000	11634
0620	12107	2020	13434
0640	11483	2040	14834

Two odd transmissions have been reported since 25/7:
On Wed. 25-7 at 2000 UTC on 14846 kHz, and on Mon. 6-8 at 0720 UTC on 15790 kHz. Although the frequencies and times are in synch with the regular skeds, there were no reports of other transmissions in the other time slots.

I didn't use XPerta for null messages before and became curious how a null message looks like. As you probably guessed.... it looks like a null message :-))

Here is a complete null message from 31 July, 2000 UTC

```
   841 841 841 000 841 841 841 000 841 841 841 000 841 841 841 000
   841 841 841 000 841 841 841 000 841 841 841 000 841 841 841 000
```

<<<<<>>>>>

::: XLS - SLOT MACHINE

One of our correspondents in Japan supplied a couple of logs of the slot machine. He heard it on a variety of freqs, not all at the same time. The 8 and 3 MHz freqs were the most reliable, as were the 6417 /6445 freqs.
The rest varied from day to day, occasionally disappearing for a day or two before returning. ''No clues as to origin of station based upon propagation. Could be Japan, ROK, DPRK, or even PRC'' he says.

Freqs: 3058, 3075, 4231, 4291, 5643, 6417, 6445, 6500, 6693, 6768, 8588, 8704

Giuseppe from Italy heard the station for the first time. Just like the rest of us he wonders what mode this is. I still have no clue, Giuseppe. Anyone else figured out what modem and mode this is?

Finally a note from John Maky. He asks ''Didn't The Slot Machine (XSL) appear on the scene about the same time The Whales/Backwards Music Station (XW) left the air?''

That is a good one, John. Personally I don't think so because XW came from various places in the USA, Europe and possibly other places. The Slot Machine is definitely located somewhere in the Far East. I am interested in what our members think of this. Like John, I too wonder what happened to the Backwards Music Station. Did the replace their equipment??

<<<<<>>>>>

::: XBS - BUZZSAW

Reportedly active between 5100-5800 kHz and between 7017-7020 kHz. The 5 MHz activity is best heard during the European night. 7 MHz pops up during the day and has mostly a good signal. The ENIGMA 2000 newsletter describes the signal as ''... pretty dreadful and is at least 40 kHz wide (!), at its worst 50 kHz, periodically it stops for just a few seconds and jumps about 20 kHz up or down the band.''

Possibly a high speed modem or some sort of jammer.

<<<<<>>>>>

::: XJT - JET

This too sounds like a high speed modem. Reported from Europe and Australia for months in a row. The highest frequencies were copied in Australia during the UTC day. Reception in Europe is best during the night.

The signal has been reported on the following frequencies:

2170	2193	2381	2417	2580	2593	2613
2656	2660	2680	3688	3693	4206	4237
4224	4229	4249	4256	4266	4300	4565
8114	8171	8220	8460	8479	8622	8636
8479	16354	22617 kHz				

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* CRYPTO *

::: NAVAJO CODE TALKERS

After reading last month's item about the Navajo Code Talkers, Spence sent me a note in which he tells me that he visited the Navajo Code Talkers Exhibit in Kayenta, AZ. He attached a copy of the exhibition pamphlet which describes the Code Talkers. Contrary to what has been published by a number of sources, Philip Johnson is not the one who invented the code, they say.

On the back of the pamphlet is the following:
"The actual creators of the Navajo Code Project were Major General Clayton B. Fogel, Amphibious Force, Pacific Fleet and Commandant Thomas Holcomb, USMC."

On page two of the pamphlet is the following:
"Philip Johnson, a minister's son was often given credit for conceiving the concept of a Navajo Code. Although he was a catalyst in the concept of a Navajo Code, he was

also considered a braggart and was suspected by the Marine
Corps for disclosing the Navajo Code secret to the Arizona
Highways Magazine in June 1943 through a report by the head
of the Navajo Bureau of Indian Affairs, James Stewart."

If you are in the neighbourhood, you might want to visit the exhibit.
The address is as follows:

Navajo Code talkers Exhibit
Post Office Box 1219
Highway 160
Kayenta, Arizona 86033

<<<<<>>>>>

::: SECRET CODE BREAKER BOOKS

During my visit to Bletchley Park I found a nice 100 page book called
'Secret Code Breaker', by Robert Reynard. The book covers all kinds of
historic crypto codes and includes a diskette with programs that can
encrypt/decrypt messages using the systems that are described in the
book. Volumes II and III, each accompanied with a diskette, are now
also available. I enjoyed the books very much. The books read smoothly
and are very informative for people who like to know more about these
old systems.

More info can be found on the SCB website at: http://codebreaker.dids.com/

<<<<<>>>>>

::: TOBY's CRYPTOPAGE

Remember Toby? He wrote a series of crypto articles in N&O back in
1998. His page is back online and he has added some interesting stuff
from the archives.

He says: ''During the winter of 1999-2000 I was granted special access
to the archives of the Swedish signal intelligence organization, FRA
(Fˆrsvarets Radioanstalt, or National Defence Radio Establishment).
The documents are an assortment of a plethora of cryptographic WWII
material held in the FRA archives, which have had the secrecy lifted
on my request. The material studied by me consists mainly of codes used
by Soviet forces, but I've also looked at some German codes. All German
material has had the secrecy lifted, but some of the Soviet material is
still considered too sensitive after more than 56 years, but the
released stuff is more than enough.

Be sure to check it out at http://hem.passagen.se/tan01/

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* LOGS SECTION *

Thanks to all the loyal logs contributors we have a nice selection of last month's findings here. Enjoy!

2362		VND5 marker CW 27-08-2001 Mon 2110 (AB)
2362.0		Still going strong calling JBL7 tonight MCW 24-08-2001 Fri 2135 (TR)
2800.0	M22	4XZ. Israeli navy Haifa. "vvv de 4xz" and 5FGs CW 24-08-2001 Fri 2144 (TR)
3195	MX	Rusian mil Izhevsk. Channelmarker R CW 27-08-2001 Mon 2144 (AB)
3292	V02a	//12215.0 USB 14-08-2001 Tue 0200
3389	V02a	distored audio //13436.0 AM 14-08-2001 Tue 0100
3415	E10	Israeli Intel. in progress. Very poor AM 27-08-2001 Mon 2139 (AB)
3756	S30	the Pip CW 27-08-2001 Mon 2046 (AB)
3840	E10	USB 13-08-2001 Mon 0000
3840	E10	CW inteference USB 17-08-2001 Fri 0000
3926	M08a	ID 88851 63594 67731 CW 12-08-2001 Sun 1000
3926	M08a	ID 59953 70991 76793 CW 19-08-2001 Sun 1000
4014	V02a	AM 14-08-2001 Tue 0300
4015.0	E10	Israeli Intel. KPA2 USB 24-08-2001 Fri 2203 (TR)
4016	M08a	ID 23533 73602 66791 (rpt of 0200z sked on 5419m) CW 18-08-2001 Sat 0300
4027	M08a	in progress CW 03-08-2001 Fri 0300
4051	M13	659 CW 26-08-2001 Sun 2100 (HFD)
4096	M21	Russian Air Defense. BT99T137??8????? CW 27-08-2001 Mon 2137 (AB)
4096.0	M21	Russian Air Defense. BT99T235??8????? CW 24-08-2001 Fri 2218 (TR)
4165	E10	Israeli Intel. VLB2 AM 27-08-2001 Mon 2045 (AB)
4173	M08a	ID 88851 63594 67731(rpt of 1000z sked on 3926m) CW 12-08-2001 Sun 1100
4173	M08a	ID 59953 70991 76793 (rpt of 1000z sked on 3926m) CW 19-08-2001 Sun 1100
4270	E10	USB 13-08-2001 Mon 0000
4329	M08a	(too weak for copy-I think one of the calls was 95363) CW 12-08-2001 Sun 1100
4360	E10	USB 18-07-2001 Wed 1915
4360	E10	USB 18-07-2001 Wed 1915
4396		Slovak mil Zilina. HVXH HVXH HCXH = NVKL NVKL NVKL marker CW 27-08-2001 Mon 2058 (AB)
4396.0		Slovak Mil Zilina HXVH HXVH HVXH = NVKL NVKL NVKL AR MCW 24-08-2001 Fri 2250 (TR)

4461	E10	Israeli Intel AM 06-08-2001 Mon 2330 (MGB)
4461	E10	FTJ USB 13-08-2001 Mon 0100
4461	E10	USB 13-08-2001 Mon 2300
4461	E10	USB 14-08-2001 Tue 0100
4461	E10	FTJ2 USB 14-08-2001 Tue 0300
4461	E10	FTJ USB 16-08-2001 Thu 0100
4461.0	E10	Israeli Intel. FTJ2 USB 24-08-2001 Fri 2303 (TR)
4503	M18	Russian mil time marker 0101 0101 0101. Time is UTC+4 CW 27-08-2001 Mon 2101 (AB)
4503.0	M18	Russian mil time marker 0307 0308 0309 etc. CW 24-08-2001 Fri 2307 (TR)
4506	M08a	ID 75424 00391 36603 (rpt of 0200z sked on 5758m) CW 12-08-2001 Sun 0300
4506	M08a	ID 57601 35843 66792 (rpt of 0200z sked on 5758m) CW 19-08-2001 Sun 0300
4560	E10	YHF USB 13-08-2001 Mon 2300
4560	E10	YHF2 USB 14-08-2001 Tue 0230
4560	E10	Israeli Intel. YHF2 AM 27-08-2001 Mon 2100 (AB)
4625	S28	the Buzzer AM 27-08-2001 Mon 2046 (AB)
4780	E10	USB 12-08-2001 Sun 0045
4780	E10	SYN2 USB 14-08-2001 Tue 0145
4780	E10	Israeli Intel. SYN2 AM 27-08-2001 Mon 2045 (AB)
4880	E10	AM 03-08-2001 Fri 2045
4880	E10	USB 12-08-2001 Sun 0045
4880	E10	ULX2 AM 13-08-2001 Mon 1900
4880	E10	ULX2 AM 27-08-2001 Mon 1930
4880	E10	Israeli Intel. ULX AM 27-08-2001 Mon 2100 (AB)
4905	M01	025 CW 07-08-2001 Tue 2000 (HFD)
4905	M01A	EoM 025 333 ... 11664 ... 425 CW 30-08-2001 Thu 2000
4941	M13	659 CW 12-08-2001 Sun 2100 (HFD)
5019	M10E	111:37756-70/21=32945, 63313-21/19=84130, 34439-35/19=769##, 70928-#3/17=60076... 000 CW 01-08-2001 Wed 0900 (HFD)
5070	M13	378 CW 06-08-2001 Mon 2100 (HFD)
5074	M45	074, //5474 CW 30-08-2001 Thu 1702 (HFD)
5091	E10	USB 03-08-2001 Fri 1935
5091	E10	USB 06-08-2001 Mon 1800
5091	E10	USB 07-08-2001 Tue 1850
5091	E10	JSR, 2 messages, 1st gc 9 2nd gc 30 AM 13-08-2001 Mon 1900
5091	E10	JSR, 2 messages, 1st gc 9 2nd gc 30 AM 13-08-2001 Mon 1900
5091	E10	USN 21-08-2001 Tue 1730
5091	E10	USB 23-08-2001 Thu 1710
5091	E10	Israeli Intel. in progress AM 27-08-2001 Mon 2051 (AB)
5153,6	MX	Russian navy Odessa. Cluster beacon D CW 27-08-2001 Mon 2123 (AB)
5154	MX	Russian navy Moscow. Cluster beacon C CW 27-08-2001

		Mon 2117 (AB)
5170	E10	KPA2 USB 03-08-2001 Fri 2020
5200		Unid. Single letters CW 28-08-2001 Tue 2128 (AB)
5221,5	M21	Russian Air Defense. BT99T124??8????? CW 28-08-2001 Tue 2124 (AB)
5230	E10	VLB2 //6912.0 USB 14-08-2001 Tue 0145
5230	E10	Israeli Intel. VLB2 AM 27-08-2001 Mon 2045 (AB)
5280	M01	025 CW 21-08-2001 Tue 1800 (HFD)
5372	M50	249 1 ... 111 ... 444 ... 221 0 CW 06-08-2001 Mon 1930
5404.0		to 0145 5 ltr grp traffic CW 15-08-2001 Wed 2237
5417	V02a	missed id; lousy audio, heard better in USB USB 24-08-2001 Fri 0200
5419	M08a	ID 23533 73602 66791 CW 18-08-2001 Sat 0200
5434	E10	KPA2 AM 03-08-2001 Fri 2030
5434	E10	USB 05-08-2001 Sun 1843
5434	E10	Israeli Intel. ART2 AM 28-08-2001 Tue 2030 (AB)
5435	E10	in progress USB 01-08-2001 Mon 2200
5435	E10	USB 13-08-2001 Mon 0000
5435	E10	ART, gc 50 AM 13-08-2001 Mon 2000
5435	E10	USB 13-08-2001 Mon 2300
5435	E10	ART USB 14-08-2001 Tue 0000
5435	E10	ART USB 17-08-2001 Fri 0000
5435	E10	ART, group count 131 AM 27-08-2001 Mon 1930
5436	E10	AM 03-08-2001 Fri 1845
5465	MX	Rusian mil Izhevsk. Channelmarker R CW 27-08-2001 Mon 2053 (AB)
5470	M10	555x3 619x3 26 071x3 41 (R5) CW 05-08-2001 Sun 0400
5470	M10	555x3 619x3 .. 071x3 .4 (R5) (QRN making difficult to copy) CW 19-08-2001 Sun 0400
5474	M45	074, //5074 CW 30-08-2001 Thu 1702 (HFD)
5734	M13	(in progress-missed callup) BT 000 (fast zeros-handsent) CW 05-08-2001 Sun 0312
5746	E03	USB 18-07-2001 Wed 1900
5758	M08a	in progress CW 03-08-2001 Fri 0300
5758	M08a	ID 75424 00391 36603 CW 12-08-2001 Sun 0200
5758	M08a	ID 57601 35843 66792 CW 19-08-2001 Sun 0200
5800	V02a	AM 13-08-2001 Mon 0300
5820	E10	YHF USB 06-08-2001 Mon 1800
5873.0	M21	Russian Air Defence Plots 990046?0? to 99048?0? in 2 minutes. CW 15-08-2001 Wed 2047 (RGA)
6270	E10	// 7760 ULX2 AM 05-08-2001 Sun 0100
6270	E10	ULX2 //7760.0 USB 13-08-2001 Mon 0100
6270	E10	ULX USB 13-08-2001 Mon 2300
6270	E10	ULX2 //7760.0 USB 14-08-2001 Tue 0100
6270	E10	ULX2 //7760.0 USB 16-08-2001 Thu 0100
6417	XLS	Slot Machine 27-08-2001 Mon 2038 (AB)
6417	XSL	The Slots USB 01-08-2001 Wed 1400
6434	M01	025 CW 18-08-2001 Sat 1500 (HFD)

6445	XSL	The Slots USB 01-08-2001 Wed 1400
6445	XSL	The Slot Machine USB 07-08-2001 Tue 1400
6485	E03	USB 18-07-2001 Wed 1900
6498	E10	PCD USB 14-08-2001 Tue 0000
6498	E10	PCD USB 17-08-2001 Fri 0000
6840	E10	// 9130 // 11565 EZI (33) ZWDSS AM 05-08-2001 Sun 0100
6840	E10	USB 07-08-2001 Tue 1900
6840	E10	EZI //9130.0 11545.0 USB 13-08-2001 Mon 0100
6840	E10	EZI //9130.0 11565.0 USB 14-08-2001 Tue 0100
6840	E10	USB 14-08-2001 Tue 0230
6840	E10	EZI //9130.0 11565.0 USB 16-08-2001 Thu 0100
6846.0	NPSU	Russian Military Calls up BY1M EMWI 2WOP SGTE OBIF for radio check. Nothing heard on QSX freq 5879. CW 30-08-2001 Thu 2155 (RGA)
6846.0	NPSU	Russian Military Msg for SGTE: 156 42 31 0152 1 56 = 360 = PPPPP RJGoo PJUoh hXVNM...(Ends) = 976 K. CW
6855	V02a	AM 13-08-2001 Mon 0300
6912	E10	VLB2 AM 02-08-2001 Thu 1815
6912	E10	Israeli Intel. VLB1 AM 05-08-2001 Sun 1935 (JMM)
6912	E10	VLB2 USB 12-08-2001 Sun 0045
6912	E10	VLB2 AM 13-08-2001 Mon 2045
6912	E10	VLB2 USB 13-08-2001 Mon 2245
6912	E10	VLB2 //5230.0 USB 14-08-2001 Tue 0145
6912	E10	Israeli Intel. VLB2 AM 27-08-2001 Mon 2149 (AB)
6930	E10	Israeli Intel. SYN2 AM 27-08-2001 Mon 2150 (AB)
6930.0	E10	Repeating "SYN 2" over and over until off at 00:52 AM 21-08-2001 Tue 0050 (LS)
6945	M10	555:619-24/071 CW 06-08-2001 Mon 2100 (HFD)
6945	M10	555:619-24/071 CW 07-08-2001 Tue 2100 (HFD)
6945	S17	weak 555 555 555 514 ... USB 06-08-2001 Mon 1250
6945	S17	very weak USB 08-08-2001 Wed 1250
6945	S17C	65059 AM 04-08-2001 Sat 1250 (HFD)
6945	S17C	85043 AM 05-08-2001 Sun 1250 (HFD)
6945	S17C	71043 AM 11-08-2001 Sat 1250 (HFD)
6945	S17C	84043 AM 12-08-2001 Sun 1250 (HFD)
6945	S17C	85043 AM 25-08-2001 Sat 1250 (HFD)
6949	E03	52476 //9251 //11545 USB 20-08-2001 Mon 2000
6959	E03	USB 18-07-2001 Wed 1800
6959	E03	USB 07-08-2001 Tue 1900
6959	E03	//10426.0 11545.0 USB 13-08-2001 Mon 2200
6959	E03	USB 20-08-2001 Mon 1705
6959	E03	52476 //9251 //11545 USB 27-08-2001 Mon 2000
6959	E03	LP id 49307 USB 27-08-2001 Mon 2100 (AB)
6985	E10	art2 AM 13-07-2001 Fri 1900
6985	E10	ART, weak, group 1?? //5345 AM 31-07-2001 Tue 2000
6985	E10	ART2 AM 02-08-2001 Thu 1900
7038,9	MX	Russian navy Arkhangelsk. Cluster beacon S CW 27-08-2001 Mon 2126 (AB)

7039	MX	Russian navy Moscow. Cluster beacon C CW 27-08-2001 Mon 2039 (AB)
7256	M03	287/00 CW 10-08-2001 Fri 1630 (HFD)
7258	E#?	Two sets of five numbers were sent, then it was gone. It interrupted some Hams, much to their amusme LSB 18-08-2001 Sat 0010
7304	M24	528 (R4) 643x2 197x2 BTx2 CW 07-08-2001 Tue 0831
7304	M24	528 (R4) 643x2 197x2 BTx2 CW 08-08-2001 Wed 0831
7304	M24	528 (R4) 704x2 199x2 BTx2 CW 14-08-2001 Tue 0831
7304	M24	528 (R4) 169x2 333x2 BTx2 (longest M24 msg I copied this year) CW 21-08-2001 Tue 0846
7304	M24	528 (R4) 169x2 333x2 BTx2 (Repeat of yesterday's sked) CW 22-08-2001 Wed 0846
7311.5	M21	99?1847??????? Repeated CW 05-08-2001 Sun 1400
7337	E03	07986 //9251 //12603 AM 31-07-2001 Tue 2000
7337	E03	Lp. id 94539 USB 28-08-2001 Tue 2000 (AB)
7522	M08a	in progress - erroneously using USB USB 03-08-2001 Fri
7540	E10	JSR USB 07-08-2001 Tue 1900
7559	M13	284 CW 18-08-2001 Sat 2000 (HFD)
7668	M16	VVVx3 8BY 455/506/739 (//freq 10248m) CW 19-08-2001 Sun 0140
7668	M16	VVVx3 8BYx3 542/506/643/673/914/371 (// freq 10248m) CW 19-08-2001 Sun 0240
7668	M16	VVVx3 8BYx3 433/561/463/354/037 (// freq 10248m) CW 19-08-2001 Sun 0340
7668	M16	VVVx3 8BYx3 612/195/538/219/313/300 (// freq on 10248m) CW 19-08-2001 Sun 0440
7668.0	M16	455/860/ 893 8BY: DGSE Ste Assise FRA CW 20-08-2001 Mon 1951 (RGA)
7739	E07	701/0 AM 29-08-2001 Wed 0510 (HFD)
7760	E10	// 6270 ULX2 AM 05-08-2001 Sun 0100
7760	E10	ULX2 //6270.0 USB 13-08-2001 Mon 0100
7760	E10	ULX2 //6270.0 USB 14-08-2001 Tue 0100
7760	E10	ULX2 //6270.0 USB 16-08-2001 Thu 0100
7761.0	E10	Israeli Inte. ULX2 USB 13-08-2001 Mon 0104 (Xbr)
7845	M10	555x3 186x3 17 450x3 24 (R5) (parallel freq 8190m) CW 05-08-2001 Sun 2110
7845	M10	555x3 186x3 36 450x3 17 (R5)(parallel freq on 8190m) CW 12-08-2001 Sun 0210
7845	M10	555x3 186x3 19 450x3 24 (R5) (//freq 8190m) CW 19-08-2001 Sun 0210
7863	M08a	ID 51652 09181 64981 CW 16-08-2001 Thu 0800
7918	E10	in progress, likely to be YHF //10648 AM 02-08-2001
7918	E10	YHF2 USB 14-08-2001 Tue 0230
7976	M08a	ID ----- ----- ----- (in progress) CW 19-08-2001 Sun
8010	M08a	ID 93642 32871 88901 CW 03-08-2001 Fri 0800
8010	M08a	ID ----- ----- ----- (sked up late, missed callups) CW 10-08-2001 Fri 0804

8010	V02a	A 36752 87833 24911 AM 31-08-2001 Fri 0600
8065	M13	417 CW 13-08-2001 Mon 1900 (HFD)
8080	E05	USB 02-08-2001 Thu 2110
8080	E05	Counting Station. 707 count 65 USB 03-08-2001 Fri 2100
8080	E05	USB 03-08-2001 Fri 2115
8080	E05	492 67 80753 //10321 USB 10-08-2001 Fri 2100
8080	E05	492 USB 16-08-2001 Thu 2100
8080.0	E05	id : 707.very good signal USB 09-08-2001 Thur (JMM)
8080.0	XPH	Russian Polyphone High spookie AM 14-08-2001 Tue 1857 (PILE)
8081.0	X06	FAPSI selcall AM 22-08-2001 Wed 2112 (JMM)
8097	V02a	carrier & tape rewind sounds til :10, then started in middle of V2a broadcast (no callups) AM 25-08-2001 Sat
8097.0	XPH	Russian Polyphone High spookie AM 14-08-2001 Tue 1856 (PILE)
8112	M10	555x3 186x3 17 450x3 24 (R5) (repeat of 0210z sked-no // freq found) CW 05-08-2001 Sun 0410
8112	M10	555x3 186x3 19 450x3 24 (R5) (rpt of 0210z skeds on 7845m and 8190m) CW 19-08-2001 Sun 0410
8135	M08a	ID 80122 88783 53473 CW 09-08-2001 Thu 2300
8136	M08a	ID 90562 98442 82623 CW 19-08-2001 Sun 1000
8156.0	M52	NR23A 16 20:4....2001 = MFLZY YPYTC (5LGs). Badly blurred morse. CW 16-08-2001 Thu 1848 (RGA)
8164	M13	629 CW 10-08-2001 Fri 1700 (HFD)
8188	E05	USB 06-08-2001 Mon 1210
8188	E05	USB 08-08-2001 Wed 1210
8188	E23	ip AM 30-08-2001 Thu 1005 (HFD)
8190	M10	555x3 186x3 17 450x3 24 (R5) (parallel freq 7845m) CW 05-08-2001 Sun 2110
8190	M10	555x3 186x3 36 450x3 17 (R5)(parallel freq on 7845m) CW 12-08-2001 Sun 0210
8190	M10	555x3 186x3 19 450x3 24 (R5) (//freq 7845m) CW 19-08-2001 Sun 0210
8300	V13	In prog USB 21-08-2001 Tue 1334
8464	E03	USB 18-07-2001 Wed 1900
8486	E03	weak/unreadable USB 02-08-2001 Thu 1700
8494,6	MX	Russian navy Odessa. Cluster beacon D CW 27-08-2001 Mon 2123 (AB)
8495.0	MX	C : Cluster Beacon RUS Moscow only. CW 16-08-2001 Thu 1828 (RGA)
8588	XLS	Slot Machine 27-08-2001 Mon 2038 (AB)
8588	XSL	The Slots USB 01-08-2001 Wed 1400
8588	XSL	The Slot Machine USB 05-08-2001 Sun 1425
8588	XSL	The Slot Machine USB 07-08-2001 Tue 1400
8588.0	XLS	Slot machine 25-08-2001 Sat 1825 (GG2)
8588.0	XLS	Slot machine 26-08-2001 Sun 1825 (GG2)
8682.0		J : Some sort of marker. Not MX. CW 16-08-2001 Thu 1822 (RGA)

8703	XSL	The Slot Machine USB 07-08-2001 Tue 1400
8703,5	XLS	Slot Machine 27-08-2001 Mon 2037 (AB)
8703.5	XSL	The Slots USB 01-08-2001 Wed 1400
8703.5	XSL	The Slot Machine USB 05-08-2001 Sun 1425
8703.5	XLS	1815 26.08.01 Slot machine (GG2)
8704.0	XLS	Slot machine 26-08-2001 Sun 2108 (AB)
8725	M13	272 CW 07-08-2001 Tue 2100 (HFD)
8725	M13	272 CW 21-08-2001 Tue 2100 (HFD)
9090	E05	USB 23-07-2001 Mon 2200
9090	E05	AM 13-08-2001 Mon 2200
9090	E05	//6960, id 006 count 185 540/87 753/96 USB 29-08-2001 Wed 2200
9130	E03	USB 07-08-2001 Tue 2220
9130	E10	// 6840 // 11565 EZI (33) ZWDSS AM 05-08-2001 Sun 0100
9130	E10	USB 07-08-2001 Tue 1900
9130	E10	Difficult copy due to local T-storm activity USB 11-08-2001 Sat 2100
9130	E10	EZI //6840.0 11545.0 USB 13-08-2001 Mon 0100
9130	E10	EZI group 42 OGWXC //11565 USB 13-08-2001 Mon 2030
9130	E10	EZI //6840.0 11565.0 USB 14-08-2001 Tue 0100
9130	E10	USB 14-08-2001 Tue 0230
9130	E10	EZI //11565.0 USB 14-08-2001 Tue 0300
9130	E10	EZI //6840.0 11565.0 USB 16-08-2001 Thu 0100
9142	E17	AM 08-08-2001 Wed 0200
9142	E17	764: 315 79 13395 20401 62836 82382 69913 99298... AM 09-08-2001 Thu 0200
9142	E17	woman had a slight eastern block english accent , transmition ended with 00000 AM 26-08-2001 Sun 0410
9195.0		480 : Fast 5FGs. Ends '= = 480 480 92 92 000 00'. CW 16-08-2001 Thu 1811 (RGA)
9219	E05	// 10527 rptg 941 Count 108 908/70 AM 03-08-2001 Fri
9219	E05	941 108 90870 USB 10-08-2001 Fri 2200
9219	E05	// 10527.0 AM 13-08-2001 Mon 2200
9235	S06	USB 07-08-2001 Tue 2130
9239	M08a	ID 14561 49133 04502 CW 12-08-2001 Sun 1100
9239	M08a	ID 90562 98442 82623 (rpt of 1000z sked on 8136m) CW 19-08-2001 Sun 1100
9242	M13	261 CW 06-08-2001 Mon 1900 (HFD)
9242	M13	261 CW 06-08-2001 Mon 2000 (HFD)
9251	E03	USB 18-07-2001 Wed 1800
9251	E03	36703 //6959 //5746 USB 02-08-2001 Thu 2100
9251	E03	USB 03-08-2001 Fri 2115
9251	E03	rptg 36703 USB 03-08-2001 Fri 2200
9251	E03	// 11545 rptg 02650 USB 04-08-2001 Sat 2200
9251	E03	USB 05-08-2001 Sun 2020
9251	E03	USB 07-08-2001 Tue 1900
9251	E03	//11545.0 Difficult copy due to local T-storm activity USB 11-08-2001 Sat 2100

9251	E03	LP calling 89730 wk //11545 USB 13-08-2001 Mon 2000
9251	E03	LP id 49307 USB 27-08-2001 Mon 2100 (AB)
9251	E03	Lp. id 94539 USB 28-08-2001 Tue 2000 (AB)
9260	V02	AM 08-08-2001 Wed 0200
9270	E10	// 10778 // 12376 CIO2 AM 03-08-2001 Fri 2345
9270	E10	CIO2 USB 12-08-2001 Sun 0045
9270	E10	CIO2 //12376.0 USB 14-08-2001 Tue 0145
9270	V02a	AM 08-08-2001 Wed 0200
9323	M08a	ID ----- ----- ----- (in progress) CW 19-08-2001 Sun
9323	V02a	In prog; A _____ 58464 51752 AM 23-08-2001 Thu 0405
9328	V02	Strong Signal AM 20-08-2001 Mon 0600
9385	M13	521/0 CW 13-08-2001 Mon 2000 (HFD)
9385	M13	521/0 CW 28-08-2001 Tue 2000 (HFD)
9418	M24	528x3 00000 (R4)(null sked) CW 01-08-2001 Wed 0800
9418	M24	528 (R4) 643x2 197x2 BTx2 CW 07-08-2001 Tue 0800
9418	M24	528 (R4) 643x2 197x2 BTx2 CW 08-08-2001 Wed 0800
9418	M24	528 (R4) 704x2 199x2 BTx2 CW 14-08-2001 Tue 0800
9418	M24	528 (R4) 169x2 333x2 BTx2 (longest M24 msg I copied this year) CW 21-08-2001 Tue 0800
9418	M24	528 (R4) 169x2 333x2 BTx2 (Repeat of yesterday's sked) CW 22-08-2001 Wed 0800
9418	M24	528x3 00000 (R4) (null sked) CW 28-08-2001 Tue 0800
9418	M24	528x3 00000 (R4) (null sked) CW 29-08-2001 Wed 0800
9913.0	LKWM	Russian Military Msg for QB9X: 308 .. 30 0256 308 = 988 = ACDKC MMMMM VONZB haVFN JTSDC (ends) = 853 K.) CW 29-08-2001 Wed 2322 (RGA)
9913.0	VUAW	Russian Military,calls LAVA QB9X Y5XR who respond on 8778 kHz. CW 29-08-2001 Wed 2131 (RGA)
9913.0	VUAW	Russian Military Calls Y5XR for QSA? CW 29-08-2001 Wed 2325 (RGA)
9985.0		127 : Repeats figures sequences. CW 16-08-2001 Thu 1804 (RGA)
10125		5L groups sent by hand. PSU hum and Freq drifting +/-200Hz. Ended with SKSKSK but no ID CW 12-08-2001
10235	M08a	ID 90561 37793 82622 CW 19-08-2001 Sun 0400
10248	M16	// 14931 8BY w/tfc 906/116/775/ CW 02-08-2001 Thu 2040
10248	M16	VVVx3 8BYx3 762/153/612/116 (parallel freq on 14931m) CW 18-08-2001 Sat 2240
10248	M16	VVVx3 8BY 455/506/739 (//freq 7668m) CW 19-08-2001 Sun 0140
10248	M16	VVVx3 8BYx3 542/506/643/673/914/371 (// freq 7668m) CW 19-08-2001 Sun 0240
10248	M16	VVVx3 8BYx3 433/561/463/354/037 (// freq 7668m) CW 19-08-2001 Sun 0340
10248	M16	VVVx3 8BYx3 612/195/538/219/313/300 (// freq on 7668m) CW 19-08-2001 Sun 0440
10248	M16	VVVx3 8BYx3 933/533/208 (// freq on 14931m and 18415m) CW 19-08-2001 Sun 2240

10308	MX	Russian navy Moscow. Cluster beacon C CW 27-08-2001 Mon 2132 (AB)
10321	E05	weak AM 02-08-2001 Thu 2100
10321	E05	rpt 863 count 198 //8080 USB 02-08-2001 Thu 2100
10321	E05	rptg 707 Count ? weak AM 03-08-2001 Fri 2100
10321	E05	492 67 80753 //8080 USB 10-08-2001 Fri 2100
10371	M13	517 CW 06-08-2001 Mon 1900 (HFD)
10371	M13	517 (R5) (Heavy RTTY blocking M13) CW 06-08-2001 Mon 2000
10371	M13	517 CW 06-08-2001 Mon 2000 (HFD)
10371	M13	517 CW 07-08-2001 Tue 1900 (HFD)
10371	M13	517 CW 07-08-2001 Tue 2000 (HFD)
10371	M13	517 CW 20-08-2001 Mon 2000 (HFD)
10371	M13	517 CW 21-08-2001 Tue 2000 (HFD)
10426	E03	45954 USB 31-07-2001 Tue 1500
10426	E03	USB 05-08-2001 Sun 1622
10426	E03	USB 05-08-2001 Sun 1622
10426	E03	USB 08-08-2001 Wed 2200
10426	E03	//6959.0 11545.0 USB 13-08-2001 Mon 2200
10426	E03	USB 20-08-2001 Mon 1405
10426	E03	ID=25715 //11545 digital interference USB 27-08-2001 Mon 2200
10426	E03	LP. very weak USB 28-08-2001 Tue 1500 (AB)
10443	M24	469x3 00000 (R4)(null sked) CW 31-07-2001 Tue 0800
10445	V02a	AM 13-08-2001 Mon 0300
10446	E06	English Man ? AM 26-08-2001 Sun 0315
10446	M08a	(in progress-missed callup) CW 03-08-2001 Fri 0800
10446	M08a	ID 35453 77711 66911 CW 08-08-2001 Wed 0800
10446	M08a	ID ----- ----- ----- (sked up late, missed callups) CW 10-08-2001 Fri 0804
10527	E05	// 9219 rptg 941 Count 108 908/70 AM 03-08-2001 Fri
10527	E05	//9219.0 AM 13-08-2001 Mon 2200
10528	E05	ID=960 count=169 faint USB 27-08-2001 Mon 2200
10583	E05	034 rpt count 96 (?) qrm/jamming, //11580 with severe bc qrm USB 31-07-2001 Tue 2000
10583	E05	// 11580 rptg 630 Count 91 528/44 USB 04-08-2001 Sat
10583	E05	USB 07-08-2001 Tue 2100
10583	E05	630 count 91 528/44 608/58 USB 14-08-2001 Tue 2000
10642	S10E	111:77426-10/18=25661, 46458-26/16=461#5, 24100-02/14=62521, 67448-71/17=42164... 000 AM 01-08-2001 Wed 1300 (HFD)
10648	E10	YHF, group count 58 AM 02-08-2001 Thu 1800
10648	E10	USB 05-08-2001 Sun 1622
10648	E10	USB 05-08-2001 Sun 1622
10648	E10	YHF, group 27(?) AM 05-08-2001 Sun 1800
10648	E10	YHF, gc 37 AM 13-08-2001 Mon 2030
10648	E10	yht, group count 37 AM 20-08-2001 Mon 2030
10648	E10	Israeli Intel. YHF AM 28-08-2001 Tue 2030 (AB)

10778	E10	// 9270 // 12376 CIO2 AM 03-08-2001 Fri 2345
10778	E10	// 13921 CIO2 AM 04-08-2001 Sat 2045
10778	E10	cio2 AM 13-08-2001 Mon 2045
10778	E10	CIO2 //12376.0 13921.0 USB 13-08-2001 Mon 2245
10778	E10	Israeli Intel. CIO2 AM 28-08-2001 Tue 2045 (AB)
10871,6	MX	Russian navy Odessa. Cluster beacon D CW 27-08-2001 Mon 2154 (AB)
10871,9	MX	Russian navy Arkhangelsk. Cluster beacon S CW 27-08-2001 Mon 2154 (AB)
10871.7	MX	D : CISN Odessa Single letter [D] hf beacon CW 22-08-2001 Wed 1518 (DW)
10871.9	MX	S : CISN ARKHANGELSK Single letter [S] hf beacon CW 22-08-2001 Wed 1520 (DW)
10872	MX	Russian navy Moscow. Cluster beacon C CW 27-08-2001 Mon 2154 (AB)
10872.0	MX	C : CISN MOSCOW Single letter [C] hf beacon CW 22-08-2001 Wed 1522 (DW)
11072	E05	rpt 297 count 174, strong signal USB 02-08-2001 Thu
11072	E05	USB 05-08-2001 Sun 1822
11072	E05	USB 05-08-2001 Sun 1822
11432	M08a	ID 96801 04622 88642 CW 16-08-2001 Thu 0800
11445	M13	261 CW 19-08-2001 Sun 1900 (HFD)
11460.0	M42	FAPSI rtty 75/450 5LG on Link 60047 RTTY 17-08-2001 Fri 1655 (RH2)
11490	S06	287/0 AM 27-08-2001 Mon 2145 (HFD)
11545	E03	USB 18-07-2001 Wed 1800
11545	E03	E02 was just misspelling. sorry USB 18-07-2001 Wed
11545	E03	USB 23-07-2001 Mon 2020
11545	E03	USB 23-07-2001 Mon 2020
11545	E03	89730 //9251 //6959 USB 02-08-2001 Thu 1900
11545	E03	weak USB 02-08-2001 Thu 2000
11545	E03	02650, //9251 //6959 USB 02-08-2001 Thu 2000
11545	E03	rptg 02650 USB 03-08-2001 Fri 2100
11545	E03	rptg 85532 USB 04-08-2001 Sat 2000
11545	E03	89730 USB 04-08-2001 Sat 2100
11545	E03	// 9251 rptg 02650 USB 04-08-2001 Sat 2200
11545	E03	// 14487 rptg 85532 w/tech problem USB 05-08-2001 Sun
11545	E03	rptg 02650 USB 05-08-2001 Sun 1500
11545	E03	weak USB 05-08-2001 Sun 1600
11545	E03	USB 05-08-2001 Sun 1622
11545	E03	USB 05-08-2001 Sun 1622
11545	E03	USB 07-08-2001 Tue 1900
11545	E03	USB 08-08-2001 Wed 1510
11545	E03	//9251.0 Difficult copy due to local T-storm activity USB 11-08-2001 Sat 2100
11545	E03	LP calling 89730 //9251 weak USB 13-08-2001 Mon 2000
11545	E03	89730 //9251 //6959 USB 13-08-2001 Mon 2000
11545	E03	88659 //9251 //6959 USB 13-08-2001 Mon 2100

11545	E03	//6959.0 10426.0 USB 13-08-2001 Mon 2200
11545	E03	USB 20-08-2001 Mon 1705
11545	E03	LP id 49307 USB 27-08-2001 Mon 2100 (AB)
11545	E03	ID=25715 //10426 faint USB 27-08-2001 Mon 2200
11545	E10	EZI //6840.0 9130.0 USB 13-08-2001 Mon 0100
11545.0	E03	id 25715 USB 25-08-2001 Sat 1800 (GG2)
11564	E05	id 137 count 148 407/91 027/34 USB 27-08-2001 Mon 1900
11564.0	E05	US Intel TCS USB 20-08-2001 Mon 1906 (PILE)
11565	E10	EZI USB 07-08-2001 Tue 1900
11565	E10	EZI group 75 BCUFQ, slow; truncated //13533 USB 13-08-2001 Mon 2000
11565	E10	EZI group 42 OGWXC //9130 USB 13-08-2001 Mon 2030
11565	E10	EZI //6840.0 9130.0 USB 14-08-2001 Tue 0100
11565	E10	EZI USB 14-08-2001 Tue 0230
11565	E10	EZI //9130.0 USB 14-08-2001 Tue 0300
11565	E10	EZI //6840.0 9130.0 USB 16-08-2001 Thu 0100
11565	E10	ID=EZI count=20 fairly faint, very slow character rate USB 27-08-2001 Mon 0105
11565	E10	ID=EZI count=20? fairly faint, very slow character rate USB 27-08-2001 Mon 0105
11565	E10	EZI; faint USB 27-08-2001 Mon 0200
11566	E10	EZI //9130 AM 13-08-2001 Mon 1900
11566	E10	EZI //9130, gc 42 AM 13-08-2001 Mon 2030
11566	V02a	buried in QRN AM 03-08-2001 Fri 0300
11567	M08?	Morse station sending what sounds like 5LGs...off air at 1837 with 2 repeated groups (?) CW 01-08-2001 Mon
11567	M08a	TTWND RTTUD DDRWD new schedule CW 03-08-2001 Fri 1800
11580	E05	// 10583 rptg 630 Count 91 528/44 USB 04-08-2001 Sat
11623	XPH	bc interval in the background, 0559Z start of transm. AM 10-08-2001 Fri 0600 (HFD)
12090	E07	English Man. id 950 AM 06-08-2001 Mon 2040 (CR)
12136.0	M42	FAPSI Link 0...8 1545 RTTY :75/500 5LGs; morse opchat. Prob link 00098. RTTY 16-08-2001 Thu 1545 (RGA)
12180	S06	035 035 035 00000 AM 23-07-2001 Mon 2118
12184	M24	675 (R4) 428x2 169x2 BTx2 CW 08-08-2001 Wed 0031
12184	M24	675 (R4) 914x2 223x2 BTx2 CW 22-08-2001 Wed 0038
12184	M24	675 (R4) 802x2 149x2 BTx2 CW 29-08-2001 Wed 0030
12204	XPH	msg AM 03-08-2001 Fri 2040 (HFD)
12204	XPH	msg AM 07-08-2001 Tue 2040 (HFD)
12204	XPH	AM 07-08-2001 Tue 2040
12204	XPH	AM 21-08-2001 Tue 2040
12210	E06	831 831 831 00000 USB 06-08-2001 Mon 2010
12210	E06	831 831 831 00000 USB 13-08-2001 Mon 2010
12210	E06	Rptg 831x3 00000 USB 13-08-2001 Mon 2010
12210	E06	831 831 831 00000 rpt USB 13-08-2001 Mon 2010
12210	E06	very strong, rpt 831 id (?)/count 205 147, carrier on several minutes before transmission starting w AM

20-08-2001 Mon 2010
12210 E06 831-205/147=20601 AM 20-08-2001 Mon 2010 (HFD)
12210 E06 831, message sent but too weak to copy AM 27-08-2001 Mon 2010
12210 E06 Russian Man. 831 + 5FGs AM 27-08-2001 Mon 2010 (AB)
12215 V02a //3292.0 AM 14-08-2001 Tue 0200
12215 V02a missed id; //5417? somewhat better reception in AM AM 24-08-2001 Fri 0214
12225 E06 Russian Man USB 07-08-2001 Tue 2100
12295 M10 555x3 968x3 40 417x3 26 (R5) CW 19-08-2001 Sun 1920
12295 M10 (in progress) 919 (R1) 94x2 18x2 BTx2 CW 28-08-2001 Tue 2206
12376 E10 // 13921 CIO2 AM 03-08-2001 Fri 2145
12376 E10 // 9270 // 10778 CIO2 AM 03-08-2001 Fri 2345
12376 E10 // 13921 CIO2 AM 05-08-2001 Sun 1445
12376 E10 CIO2 //13921.0 14866.0
13921 E10 Fri 07132001 0345 USB CIO2 //12376.0 14866.0 USB 13-08-2001 Mon 0345
12376 E10 CIO2 //10778.0 13921.0 USB 13-08-2001 Mon 2245
12376 E10 CIO2 //9270.0 USB 14-08-2001 Tue 0145
12376 E10 Israeli Intel. CIO2 AM 28-08-2001 Tue 2045 (AB)
12603 E03 rptg 03070 USB 31-07-2001 Tue 2000
12603 E03 85532 //14487 //16475 USB 02-08-2001 Thu 1800
12603 E03 // 14487 // 16475 rptg 85532 USB 02-08-2001 Thu 1800
12603 E03 26639 //9251 //7337 USB 05-08-2001 Sun 1800
12603 E03 rptg 26639 USB 06-08-2001 Mon 1900
12603 E03 USB 06-08-2001 Mon 1916
12603 E03 // 14487 // 16314 rptg 24638 USB 07-08-2001 Tue 1400
12603 E03 with Jammer 2XX39 USB 08-08-2001 Wed 2200
12603 E03 26639 //9251 //7337 USB 13-08-2001 Mon 1900
12603 E03 34464 //9251 //7337 USB 27-08-2001 Mon 1900
12603 E03 Lp. id 94539 USB 28-08-2001 Tue 2000 (AB)
12603 E03 34464 //9251 //7337 USB 29-08-2001 Wed 2200
12614 M13 714 CW 09-08-2001 Thu 2000 (HFD)
12614 M13 (QRM too heavy for copy) CW 24-08-2001 Fri 2000
12614 M13 714 CW 24-08-2001 Fri 2000 (HFD)
12752 M13 253 (R5) (too weak for copy and QRM heavy) CW 02-08-2001 Thu 2000
12752 M13 253 CW 02-08-2001 Thu 2000 (HFD)
12752 M13 253 CW 03-08-2001 Fri 2000 (HFD)
12752 M13 253 CW 17-08-2001 Fri 2000 (HFD)
13349 M24 496 (R4) 238x2 279x2 BTx2 CW 23-08-2001 Thu 0044
13349 M24 496 (R4) 582x2 309x2 BTx2 CW 30-08-2001 Thu 0048
13374 M08a UDWTA NW_MA AWWAA CW 06-08-2001 Mon 1800
13375 E03 // 16084 rptg 24638 USB 03-08-2001 Fri 1700
13375 E03 weak USB 04-08-2001 Sat 1600
13375 E03 weak/unreadable //12603 //11545
16198 e05 Sun 08052001 1500 USB rpt 981

		//14739 USB 05-08-2001 Sun 1500
13375	E03	faint USB 26-08-2001 Sun 1500
13375.0	E03	id 25715 USB 25-08-2001 Sat 1800 (GG2)
13436	V02a	//3389.0 AM 14-08-2001 Tue 0100
13438	XPH	Polytone - null message AM 31-07-2001 Tue 2020
13450	E05	in progress, apparently //11564 USB 27-08-2001 Mon
13465	E05	weak AM 02-08-2001 Thu 1800
13465	E05	rpt 297 count 174 //11072 11566 e10 Sun 08052001 1800 AM ezi with heavy bc qrm USB 05-08-2001 Sun 1800
13465	E05	USB 05-08-2001 Sun 1822
13465	E05	USB 05-08-2001 Sun 1822
13465.0	E05	US Intel TCS, from poss. Guam tx site USB 12-08-2001 Sun 1837 (PILE)
13470.0	M42	75/500 FAPSI 14290 End of sked. Msgs missed RTTY 21-08-2001 Tue (RGA)
13505	E07	English Man. id 950 AM 06-08-2001 Mon 2020 (CR)
13505	E07	Russian Man. 950 950 950 000 AM 27-08-2001 Mon 2020
13506	E07	950-1/5219:178= 22797 qrt 2045 AM 06-08-2001 Mon 2025 (HFD)
13506	E07	952 (?) 00000, strong signal but only caught final seconds of transmission USB 13-08-2001 Mon 2020
13506	E07	952 (?) 000000, only caught end of transmission AM 13-08-2001 Mon 2020
13506	E07	weak AM 20-08-2001 Mon 2020
13506	E07	950 950 950 000 AM 27-08-2001 Mon 2020
13528	MX	SLHFM "C" CW 01-08-2001 Wed 1400
13528	MX	SLHFM "C" CW 05-08-2001 Sun 1425
13528	MX	Russian navy Moscow. Cluster beacon C CW 28-08-2001 Tue 0954 (AB)
13533	E10	// 15980 EZI2 AM 02-08-2001 Thu 2100
13533	E10	EZI weak AM 02-08-2001 Thu 2130
13533	E10	// 15980 EZI2 AM 03-08-2001 Fri 2100
13533	E10	EZI AM 03-08-2001 Fri 2130
13533	E10	EZI (120) POBUL AM 07-08-2001 Tue 1430
13533	E10	Difficult copy due to local T-storm activity USB 11-08-2001 Sat 2100
13533	E10	EZI group 75 BCUFQ, slow; truncated //11565 USB 13-08-2001 Mon 2000
13533	E10	USB 23-08-2001 Thu 1718
13533	E10	id=EZI count=49 unusually clear strong audio in both AM and USB AM 26-08-2001 Sun 0430
13533	E10	ID=EZI count=16 USB 26-08-2001 Sun 0500
13534	E10	EZI2 //11566 AM 31-07-2001 Tue 2000
13534	E10	EZI2 AM 02-08-2001 Thu 1600
13534	E10	EZI, group count 42, //11566 AM 02-08-2001 Thu 1700
13534	E10	EZI, group count 37, //11566 AM 02-08-2001 Thu 1800
13534	E10	EZI, missed gc, //11566 AM 02-08-2001 Thu 1830

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13534    E10    EZI group count 75 //11566 //9130 AM 02-08-2001 Thu
13534    E10    EZI2 //11566 AM 02-08-2001 Thu 2100
13534    E10    EZI2 AM 05-08-2001 Sun 1500
13534    E10    EZI //11566 //9130 gc 75 AM 13-08-2001 Mon 2000
13534    E10    EZI2 //11566 AM 13-08-2001 Mon 2100
13534    E10    EZI, group count 20 //11566 AM 27-08-2001 Mon 1930
13534    E10    EZI, group count 75, //11566 AM 27-08-2001 Mon 2000
13650    V13    In prog USB 21-08-2001 Tue 1334
13750    V13    YL/CC 4FGx2 AM 01-08-2001 Wed 1400
13750    V13    YL/CC 4FGx2 AM 05-08-2001 Sun 1600
13750    V13    YL/CC w/flute interval AM 07-08-2001 Tue 1400
13750    V13    AM 11-08-2001 Sat 1200
13750    V13    flute interval, yl/cc 4fgx2 USB 19-08-2001 Sun 1500
13750    V13    flute interval; YL/CC 4FGx2 USB 23-08-2001 Thu 1400
13750    V13    New Star Broadcasting AM 26-08-2001 Sun 1500
13838    M24    289 (R4) 374x2 196x2 BTx2 CW 09-08-2001 Thu 2230
13838    M24    289 (R4) 374x2 195x2 BTx2 CW 13-08-2001 Mon 2231
13838    M24    289 (R4) 163x2 207x2 BTx2 (Much better signal and less
                 QRN this sked) CW 16-08-2001 Thu 2232
13838    M24    289 (R4) 163x2 207x2 BTx2 CW 20-08-2001 Mon 2232
13838    M24    289 (R4) 407x2 251x2 BTx2  (QRN too heavy and signal
                too weak for good copy) CW 23-08-2001 Thu 2237
13838    M24    289 (R4) 407x2 251x2 BTx2 CW 27-08-2001 Mon 2237
13838    M24    289 (R4) 541x2 237x2 BTx2 CW 30-08-2001 Thu 2236
13877    E06    856-204/61  48676   note: tx in USB USB 08-08-2001 Wed
                 1400
13921    E10    CIO2 AM 02-08-2001 Thu 2145
13921    E10    // 12376 CIO2 AM 03-08-2001 Fri 2145
13921    E10    // 10778 CIO2 AM 04-08-2001 Sat 2045
13921    E10    // 10778 CIO2 AM 05-08-2001 Sun 1445
13921    E10    CIO2  //10778.0  12376.0 USB 13-08-2001 Mon 2245
13921    E10    Israeli Intel. CIO2 AM 28-08-2001 Tue 2045 (AB)
13968    XPH    msg AM 03-08-2001 Fri 2020 (HFD)
13968    XPH    msg AM 07-08-2001 Tue 2020 (HFD)
13968    XPH    AM 21-08-2001 Tue 2020
13968    XPH    Polytone station. Null msg AM 28-08-2001 Tue 2020 (AB)
14487    E03    // 15682 // 16084 rptg 33805 USB 01-08-2001 Wed 1400
14487    E03    24638 //12603 //8464 USB 02-08-2001 Thu 1600
14487    E03    // 12603 // 16475 rptg 85532 USB 02-08-2001 Thu 1800
14487    E03    // 11545 rptg 85532 w/tech problem USB 05-08-2001 Sun
14487    E03    // 12603 // 16314 rptg 24638 USB 07-08-2001 Tue 1400
14487    E03    // 16084 rptg 89730 USB 10-08-2001 Fri 1300
14514    M24    375 (R4) 468x2 119x2 BTx2 CW 14-08-2001 Tue 0030
14514    M24    375 (R4) 802x2 169x2 BTx2 CW 28-08-2001 Tue 0031
14518    M24    375 (R4) 240x2 157x2 BTx2 CW 07-08-2001 Tue 0030
14523    XPH    AM 24-07-2001 Tue 0640
14523    XPH    AM 24-07-2001 Tue 0640
14523    M24    675 (R4) 428x2 169x2 BT BT 8-8-2001 Wed 0000
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14532    M24    675x3 00000 (R4)(null sked) CW 01-08-2001 Wed 0000
14532    M24    675 (R4) 914x2 223x2 BTx2 CW 22-08-2001 Wed 0000
14532    M24    675 (R4) 802x2 149x2 BTx2 CW 29-08-2001 Wed 0000
14578    M24    374x3 00000 (R4)(null sked) CW 30-07-2001 Mon 2200
14739    E05    rpt 981, weak USB 31-07-2001 Tue 1500
14739    E05    // 16198 rptg 981 Count 215 723/49 AM 05-08-2001 Sun
14739    E05    // 16198 rptg 981 Count 215 723/49 AM 07-08-2001 Tue
14739    E05    981 count 251 723/49 664/04 USB 19-08-2001 Sun 1500
14739    E05    in prog AM 19-08-2001 Sun 1519
14739    E05    613 // 16198 AM 26-08-2001 Sun 1500
14739    E05    Counting Station. 613 AM 28-08-2001 Tue 1500 (AB)
14740    E05    981  15  72349     //16198 USB 07-08-2001 Tue 1500
14846    XPH    Polytone - null message AM 31-07-2001 Tue 2000
14866    E10    CIO2  //12376.0  13921.0 USB 13-08-2001 Mon 0345
14910    E07    English Man. id 950 AM 06-08-2001 Mon 2000 (CR)
14911    E07    950-1/5219:178= 22797 qrt 2020 AM 06-08-2001 Mon 2000
                (HFD)
14911    E07    weak, no message AM 20-08-2001 Mon 2000
14911    E07    950 950 950 000 AM 27-08-2001 Mon 2000
14930    M16    CW 08-08-2001 Wed 2100
14931    M16    // 10248 8BY w/tfc 906/116/775/ CW 02-08-2001 Thu 2040
14931    M16    VVVx3 8BYx3 762/153/612/116 (parallel freq on  10248m)
                 CW 18-08-2001 Sat 2240
14931    M16    VVVx3 8BYx3  434/195/523/906/124 (// freqs on 18415m
                and 20946m) CW 19-08-2001 Sun 2040
14931    M16    VVVx3 8BYx3  080/208/788/708 (// freq on 18415m) CW
                19-08-2001 Sun 2140
14931    M16    VVVx3 8BYx3  933/533/208 (// freq on 10248m and
                18415m) CW 19-08-2001 Sun 2240
14941    M24    --- 364x2 189x2 BTx2 CW 04-08-2001 Sat 2140
14941    M24    527 (R4) 364x2 189x2 BTx2 CW 05-08-2001 Sun 2140
14941    M24    527 (R4) 893x2 161x2 BTx2 (rpt of 2110z sked on
                17491m) CW 18-08-2001 Sat 2140
14941    M24    527 (R4) 893x2 161x2 BTx2 (rpt of 2110z sked on
                17491m) CW 19-08-2001 Sun 2140
14941    M24    527 (R4) 106x2 325x2 BTx2 CW 25-08-2001 Sat 2154
14941    M24    527 (R4) 106x2 325x2 BTx2 CW 26-08-2001 Sun 2154
15388    V13    YL/CC 4FGx2 AM 01-08-2001 Wed 1400
15388    V13    YL/CC 4FGx2 AM 07-08-2001 Tue 1400
15658    XPH    msg AM 07-08-2001 Tue 2000 (HFD)
15658    XPH    AM 21-08-2001 Tue 2000
15672    M24    496x3 00000 (R4)(null sked) CW 02-08-2001 Thu 0000
15672    M24    496x3 00000 (R4) (null sked) CW 09-08-2001 Thu 0000
15672    M24    496x3 00000 (R4) (null sked) CW 16-08-2001 Thu 0000
15672    M24    496 (R4) 238x2 279x2 BTx2 CW 23-08-2001 Thu 0000
15672    M24    496 (R4) 582x2 309x2 BTx2 CW 30-08-2001 Thu 0000
15682    E03    // 14487 // 16084 rptg 33805 USB 01-08-2001 Wed 1400
15682    E03    USB 08-08-2001 Wed 1205
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15732 E05 USB 08-08-2001 Wed 1205
15835 E05 Counting Station USB 05-08-2001 Sun 1225 (CR)
15980 E10 // 13633 EZI2 AM 02-08-2001 Thu 2100
15980 E10 // 13533 EZI2 AM 03-08-2001 Fri 2100
16048 M42 Dept. of St. Comms Moscow, RUS VFT/2x 64 Bd BPSK,identical on both ch, 1kc ch spacing, carr on 16050 kc QSY f/18590 kc RTTY 11-08-2001 Sat 0909 (LDO)
16084 E03 // 14487 // 15682 rptg 33805 USB 01-08-2001 Wed 1400
16084 E03 // 13375 rptg 24638 USB 03-08-2001 Fri 1700
16084 E03 89730 //15682 USB 05-08-2001 Sun 1300
16084 E03 USB 06-08-2001 Mon 1300
16084 E03 USB 06-08-2001 Mon 1300
16084 E03 USB 08-08-2001 Wed 1205
16084 E03 weak USB 08-08-2001 Wed 1400
16084 E03 // 14487 rptg 89730 USB 10-08-2001 Fri 1300
16084.0 E03 Lincolnshire Poacher. UK SIS (Cyprus?) 5FGs. S6. //14487 S7. USB 16-08-2001 Thu 1425 (RGA)
16084.0 E03 id 25715 USB 25-08-2001 Sat 1800 (GG2)
16084.0 E03 94539: Lincs Poacher Cyprus? Starts sked at 1406. USB 31-08-2001 Fri 1406 (RGA)
16198 E05 // 14739 rptg 981 Count 215 723/49 AM 05-08-2001 Sun
16198 E05 981 215 72349 //14740 USB 07-08-2001 Tue 1500
16198 E05 // 14739 rptg 981 Count 215 723/49 AM 07-08-2001 Tue
16198 E05 "981 1234567890" (rpt'd from 1500 to 1510UTC) Then series of dashes followed by long 3/2 message USB 12-08-2001 Sun 1500
16198 E05 in prog AM 19-08-2001 Sun 1519
16198 E05 613 // 14739 AM 26-08-2001 Sun 1500
16198 E05 Counting Station. 613 AM 28-08-2001 Tue 1500 (AB)
16198 E05 555/175 99972 nothing heard on 15682 AM 29-08-2001 Wed 1600 (HFD)
16218 M24 375x3 00000 (R4)(null sked) CW 31-07-2001 Tue 0000
16218 M24 289x3 00000 (null sked) CW 06-08-2001 Mon 2200
16218 M24 375 (R4) 240x2 157x2 BTx2 CW 07-08-2001 Tue 0000
16218 M24 289 (R4) 374x2 196x2 BTx2 CW 09-08-2001 Thu 2200
16218 M24 289 (R4) 374x2 195x2 BTx2 CW 13-08-2001 Mon 2200
16218 M24 375 (R4) 468x2 119x2 BTx2 CW 14-08-2001 Tue 0000
16218 M24 289 (R4) 163x2 207x2 BTx2 (Weak and heavy QRN) CW 16-08-2001 Thu 2200
16218 M24 289 (R4) 163x2 207x2 BTx2 CW 20-08-2001 Mon 2200
16218 M24 375x3 00000 (R4) (null sked) CW 21-08-2001 Tue 0000
16218 M24 289 (R4) 407x2 251x2 BTx2 (QRM too heavy for copy) CW 23-08-2001 Thu 2200
16218 M24 289 (R4) 407x2 251x2 BTx2 CW 27-08-2001 Mon 2200
16218 M24 375 (R4) 802x2 169x2 BTx2 CW 28-08-2001 Tue 0000
16218 M24 289 (R4) 541x2 237x2 BTx2 CW 30-08-2001 Thu 2200
16218 M42 FAPSI. Msgs RTTY 28-08-2001 Tue 0020 (AD)
16295.0 M42 Dep. of State Comms Moscow, RUS Baudot 200Bd+100Bd/500Hz

		5LGs to unlocated embassy on link 00149, changing two lower Bd-rate in the middle of msg RTTY 15-08-2001 Wed
16314	E03	77290 //14487 //12603 USB 31-07-2001 Tue 1400
16314	E03	// 12603 // 14487 rptg 24638 USB 07-08-2001 Tue 1400
16314.0	X06/ M42	FAPSI 1634 Crowd36 40bd Mazielka then normal 40bd RTTY 29-08-2001 Wed 1634 (RH2)
16325.5		629 repeated+5FGs with peculiar spaced morse. CW 10-08-2001 Fri 1509 (RGA)
16331,9	MX	Russian navy Arkhangelsk. Cluster beacon S CW 28-08-2001 Tue 0952 (AB)
16331.9	MX	S : CISN Arkhangelsk Single letter [S] hf beacon CW 14-08-2001 Tue 1842 (DW)
16332	MX	SLHFM "C" CW 02-08-2001 Thu 1805
16332	MX	SLHFM "C" CW 03-08-2001 Fri 1705
16332	MX	Russian navy Moscow. Cluster beacon C CW 28-08-2001 Tue 0950 (AB)
16332.0	MX	C : CISN Moscow Single letter [C] hf beacon CW 14-08-2001 Tue 1840 (DW)
16475	E03	// 12603 // 14487 rptg 85532 USB 02-08-2001 Thu 1800
17473.0	M42	FAPSI Link 10163 RTTY/75/500 5FGs+5LGs. RTTY 10-08-2001 Fri 0920 (RGA)
17491	M24	--- 364x2 189x2 BTx2 CW 04-08-2001 Sat 2110
17491	M24	527 (R4) 364x2 189x2 BTx2 CW 05-08-2001 Sun 2110
17491	M24	527x3 00000 (R4) (null sked) CW 11-08-2001 Sat 2110
17491	M24	527x3 00000 (R4) (null sked) CW 12-08-2001 Sun 2110
17491	M24	527 (R4) 893x2 161x2 BTx2 CW 18-08-2001 Sat 2110
17491	M24	527 (R4) 893x2 161x2 BTx2 CW 19-08-2001 Sun 2110
17491	M24	527 (R4) 106x2 325x2 BTx2 CW 25-08-2001 Sat 2110
17491	M24	527 (R4) 106x2 325x2 BTx2 CW 26-08-2001 Sun 2110
18035	E05	Counting Station USB 05-08-2001 Sun 1225 (CR)
18415	M16	VVVx3 8BYx3 (too weak - QRN) CW 19-08-2001 Sun 1440
18415	M16	VVVx3 8BYx3 (too weak - QRN) CW 19-08-2001 Sun 1540
18415	M16	VVVx3 8BYx3 121/037/274/015/506 CW 19-08-2001 Sun
18415	M16	VVVx3 8BYx3 (too weak - QRN) CW 19-08-2001 Sun 1740
18415	M16	VVVx3 8BYx3 (too weak - QRN) CW 19-08-2001 Sun 1840
18415	M16	VVVx3 8BYx3 445/533/121/153/475/208 CW 19-08-2001 Sun 1940
18415	M16	VVVx3 8BYx3 434/195/523/906/124 (// freqs on 20496m and 14931m) CW 19-08-2001 Sun 2040
18415	M16	VVVx3 8BYx3 080/208/788/708 (// freq on 14931m) CW 19-08-2001 Sun 2140
18415	M16	VVVx3 8BYx3 933/533/208 (// freq on 10248m and 14931m) CW 19-08-2001 Sun 2240
18588.0	M42	Dept.of State Comms Moscow, RUS VFT/2x 64Bd BPSK identical info on both ch, tone spacing 1kc, unmod carr 18590kc, QSY to 16048kHz at 09:05 RTTY 11-08-2001 Sat 0905 (LDO)
18864	E04	weak USB 02-08-2001 Thu 2200

18864	E04	// 21866 weak USB 02-08-2001 Thu 2300
18864	E04	rptg 48263 USB 10-08-2001 Fri 1300
18864	E04	USB 13-08-2001 Mon 2200
18864	E04	//21866.0 USB 14-08-2001 Tue 0000
18864	E04	In prog USB 21-08-2001 Tue 1334
19884	E04	call-up 83681 //21866 USB 09-08-2001 Thu 0100
19884	E04	//21866.0 USB 13-08-2001 Mon 0100
19884	E04	//21866.0 USB 16-08-2001 Thu 0100
20048	MX	Russian navy Moscow. Cluster beacon C CW 28-08-2001 Tue 0950 (AB)
20496	M16	VVVx3 8BYx3 434/195/523/906/124 (// freqs on 18415m and 14931m) CW 19-08-2001 Sun 2040
21866	E04	// 18864 weak USB 02-08-2001 Thu 2300
21866	E04	weak USB 03-08-2001 Fri 0000
21866	E04	call-up 83681 //19884
21866	E04	//19884.0 USB 13-08-2001 Mon 0100
21866	E04	USB 13-08-2001 Mon 2300
21866	E04	//18864.0 USB 14-08-2001 Tue 0000
21866	E04	USB 14-08-2001 Tue 0100
21866	E04	//19884.0 USB 16-08-2001 Thu 0100
23461	E04	Cherry Ripe. Barely audible USB 28-08-2001 Tue 1000

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BS2	Billy S., OH, USA
CD	Captain Davros
CR	Cherry Ripe, Europe
DF	David Ferrie, ILL, USA
DW	Day Watson, UK
GG2	Giuseppe Gravina, Italy
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